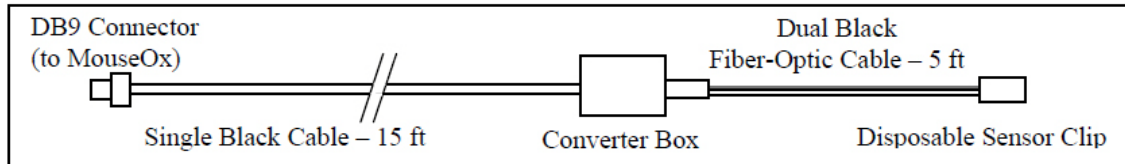


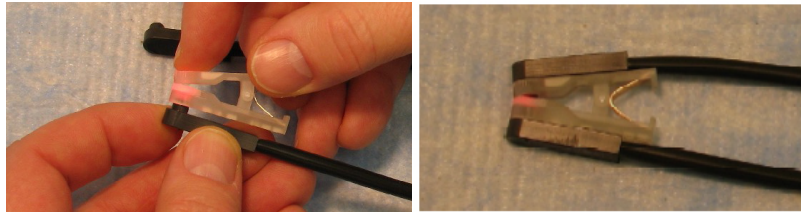
OXY300-MRI SENSOR: SMALL-BORE MRI SENSOR INSTRUCTION SHEET

Small-Bore MRI Sensor Schematic

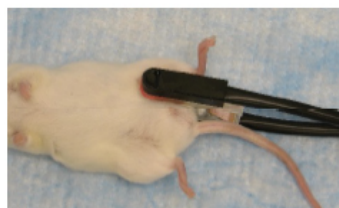


Usage Instructions:

1. Connect the DB9 Connector (9-pin connector) on the end of the thin black cable to the MouseOx® Control Box. Be sure that the MouseOx® software is not running when you do this.
2. Connect a disposable sensor clip to the fiber-optic cable. **You MUST USE a Mouse Thigh Clip for mice and a Rat Foot Clip for rats.** Place the protrusion on the end of the fiber-optic cable labeled “LED” into the hole on the clip half marked “LED,” then do the same for the side marked “PD.” Make sure that the fiber-optic cable is oriented so that it aligns over the handle as shown.



3. Connect the sensor clip to the animal:
 - a. **Mouse Thigh** – Place the clip on the thigh of a mouse as shown. For non-white fur, you **MUST** shave both locations of the sensor site. On white fur, shaving is not necessary, but will improve signal strength.
 - b. **Rat Foot** – Place the clip over the toes and locate it so that light shines through the **CENTER** of the foot. Support the clip/cable so that the animal’s foot is **NOT TWISTED** relative to its position before attaching the clip. The clip half marked “PD” should be on the bottom side of the foot.



Mouse Thigh



Rat Foot

4. After locating the clip on the animal, distribute the dual black fiber-optic cable such that it proceeds straight from the animal and that it **DOES NOT** twist the animal’s foot. Try to lay the sensor clip so that both the LED and PD cables are lying on the table.
5. Run the MouseOx® software (Rev 6.0 or higher). To get to the Monitor Subject screen, choose “Anesthetized Measurements” then “Mouse Thigh” or “Rat Foot” depending on your application.

Other recommended guidelines:

- **Keep the body (rectal) temperature of the animal above 36°C.**

- Make sure that Pulse Distention exceeds 20 m when operating the system. If Pulse Distention is less than 20 m, try to relocate the sensor clip to improve it or **warm the animal.**

- If you are having trouble getting a good signal, try shaving the sensor location if applicable.

- **The non-ferrous spring will weaken with multiple uses. An unreasonably low oxygen saturation measurement (a healthy subject with a sat of 88% or less) is a clear sign of an over-used spring. To prevent this, and to promote infection control, replace the clip before each MRI session.**

CAUTION: Converter box contains trace amounts of ferrous material. Keep it away from the magnet bore.